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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,340	02/27/2002	Simon Mellor	PWV1.PAU.165	8537
23386 7590 01/15/2008 MYERS DAWES ANDRAS & SHERMAN, LLP 19900 MACARTHUR BLVD.,			EXAMINER	
			YUN, EUGENE	
SUITE 1150 IRVINE, CA 9	2612		ART UNIT PAPER NUMBER 2618	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-	· — —	Application No.	Applicant(s)		
Office Action Summary		10/085,340	MELLOR ET AL.		
		Examiner	Art Unit		
		Eugene Yun	2618		
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
VVHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONF	N. nely filed the mailing date of this communication. D. (35 U.S.C. & 133)		
Status	.,				
	Responsive to communication(s) filed on <u>07 No</u>	ovember 2007			
	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E.				
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-4,8-10,15 and 17 is/are pending in the day of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4,8-10,15 and 17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.			
Applicati	on Papers				
	The specification is objected to by the Examiner				
	The drawing(s) filed on <u>27 February 2002</u> is/are:		to by the Examiner		
,	Applicant may not request that any objection to the d				
	Replacement drawing sheet(s) including the correction		• •		
11)	The oath or declaration is objected to by the Exa				
Priority u	nder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign part All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage		
Attachment					
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 8-10, 15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ketonen (US 6,594,508) and Basile (US 6,298,243) and further in view of Baran (US 5,421,030).

Referring to Claim 1, Ketonen teaches a method of transmitting a communication signal between a radio base station and a radiation element (see col. 2, lines 37-39), the method comprising:

Receiving data signals from a radiation element and producing an input signal (see col. 3, lines 7-9), wherein the data signals include values representing operating parameters of devices at the multiple radiation element (see col. 3, lines 26-37);

Receiving the input signal (see col. 3, lines 7-9);

extracting the data signals from the input signal (see col. 3, lines 50-55); and producing a status signal for each device based upon the values representing operating parameters that simulates a feedback signal for the device (see col. 6, lines 57-65).

Ketonen does not teach multiple radiation elements, generating a signal that combines data signals, and receiving an input signal including the single signal from the multiple

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radiation elements over a common feeder cable. Basile teaches multiple radiation elements, generating a first signal that combines data signals (see col. 4, lines 19-21 which notes the combining of the GPS and the cellular signals for transmission over a single cable), and receiving an input signal including the first signal from the multiple radiation elements over a common feeder cable, wherein the data signals include values representing operating parameters of devices at the multiple radiation elements (see ABSTRACT and col. 4, lines 11-17), and receiving the input signal from the multiple radiation elements over the common feeder cable (see ABSTRACT and col. 3, lines 51-58). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Basile to said device of Ketonen in order to cut costs by using less and less expensive feeder lines. The combination of Ketonen and Basile does not teach generating a single modulated signal that combines data signals, producing a single input modulated signal, such that the input signal is adapted to transmitted over a common feeder cable, and transmitting the input modulated signal along with the transmitted and received communication channel signals through the common feeder cable. Baran teaches generating a single modulated signal that combines data signals, producing a single input modulated signal, such that the input signal is adapted to transmitted over a common feeder cable (see col. 8, lines 30-37), and transmitting the input modulated signal along with the transmitted and received communication channel signals through the common feeder cable (see col. 8, lines 37-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Baran to

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the modified device of Ketonen and Basile in order to increase the capabilities of the system while maintaining low costs.

Claim 15 has similar limitations as claim 1.

Referring to Claim 2, Ketonen also teaches the input signal comprising a plurality of communication signals (see col. 3, lines 7-9).

Referring to Claim 3, Ketonen also teaches the devices including system cables 206 (fig. 2).

Referring to Claim 4, Ketonen also teaches a mast head amplifier (see col. 5, line 44).

Referring to Claim 8, Ketonen teaches a method of transmitting a communication signal between a radio base station and a radiation element, the method comprising:

Receiving data signals that include control signals representing operating parameter settings for devices at a radiation element (see col. 3, lines 26-37) and producing an input signal to be transmitted over a feeder cable (see col. 3, lines 7-9);

receiving the input signal (see col. 2, lines 7-9);

extracting the data signals from the input signal (see col. 3, lines 50-55); and producing an output signal for each device that transfers the control signals representing operating parameter settings to the device (see col. 9, lines 66-67 and col. 10, lines 1-8).

Ketonen does not teach multiple radiation elements. Basile teaches multiple radiation elements, generating first a signal that combines data signals (see col. 4, lines 19-21 which notes the combining of the GPS and the cellular signals for transmission over a

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single cable), receiving data signals that include control signals representing operating parameter settings for devices at multiple radiation elements and producing an input signal including the first signal to be transmitted over a common feeder cable (see ABSTRACT and col. 4, lines 11-17), and receiving the input signal over the common feeder cable (see ABSTRACT and col. 3, lines 51-58). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Basile to said device of Ketonen in order to cut costs by using less and less expensive feeder lines.

The combination of Ketonen and Basile does not teach generating a single modulated signal that combines data signals, producing a single input modulated signal to be transmitted over a common feeder cable, and transmitting the input modulated signal along with the transmitted and received communication channel signals. Baran teaches generating a single modulated signal that combines data signals, producing a single input modulated signal to be transmitted over a common feeder cable (see col. 8, lines 30-37), and transmitting the input modulated signal along with the transmitted and received communication channel signals (see col. 8, lines 37-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Baran to the modified device of Ketonen and Basile in order to increase the capabilities of the system while maintaining low costs.

Claim 17 has similar limitations to claim 8.

Referring to Claim 9, Ketonen also teaches the input signal comprising a plurality of communication signals (see col. 3, lines 7-9).

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Referring to Claim 10, Ketonen also teaches a mast head amplifier (see col. 5, line 44).

Response to Arguments

3. Applicant's arguments with respect to claims 1-4, 8-10, 15, and 17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (571) 272-7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571)272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Yun Examiner Art Unit 2618

EY